

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/069,973	06/17/2002	Stefan Grimm	100564-00107	9410
6449 7	590 06/03/2005		EXAMINER	
ROTHWELL 1425 K STREE	, FIGG, ERNST & MA	DAVIS, MINH TAM B		
SUITE 800	21, 14. **.		ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20005		1642	

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			T. 2	
	Application	on No.	Applicant(s)	
Office Action Commence	10/069,9	73	GRIMM ET AL.	
Office Action Summary	Examine	•	Art Unit	
	MINH-TAI		1642	
The MAILING DATE of this communication Period for Reply	on appears on the	e cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no evion. s, a reply within the state period will apply and we statute, cause the app	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS fron dication to become ABANDONI	mely filed ys will be considered timely. In the mailing date of this communicati ED (35 U.S.C. § 133).	ion.
Status				
1)⊠ Responsive to communication(s) filed on	16 February 20	<u>05</u> .		
	This action is n			
3) Since this application is in condition for al	llowance except	for formal matters, pr	osecution as to the merits	is
closed in accordance with the practice un	nder <i>Ex parte Qu</i>	<i>layle</i> , 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>63-93</u> is/are pending in the appli	ication.			
4a) Of the above claim(s) is/are with		nsideration.		
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.			•	
7) Claim(s) is/are objected to.				
8)⊠ Claim(s) <u>63-93</u> are subject to restriction a	and/or election re	equirement.		
Application Papers			·	
9)☐ The specification is objected to by the Exa	aminer.			
10) The drawing(s) filed on is/are: a)	accepted or b)	objected to by the	Examiner.	
Applicant may not request that any objection t	to the drawing(s) t	oe held in abeyance. Se	ee 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the c				(d).
Priority under 35 U.S.C. § 119				
12)☐ Acknowledgment is made of a claim for fo a)☐ All b)☐ Some * c)☐ None of:	oreign priority un	der 35 U.S.C. § 119(a	a)-(d) or (f).	
.1. Certified copies of the priority docu	ments have bee	n received.		
Certified copies of the priority docu	ments have bee	n received in Applicat	tion No	
Copies of the certified copies of the	e priority docume	ents have been receiv	red in this National Stage	
application from the International B	•	, ,,		
* See the attached detailed Office action for	a list of the certi	fied copies not receiv	ed.	
Attachment(s)				
1) Notice of References Cited (PTO-892)		4) Interview Summary		
Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/5 Paper No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Pate Patent Application (PTO-152)	,
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Off	fice Action Summa	ry P	art of Paper No./Mail Date 20050	520

Part of Paper No./Mail Date 20050520

Application/Control Number: 10/069,973

Art Unit: 1642

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Applicant cancels claims 1-62 and adds new claims 63-93.

The addition of new claims 63-93 requires new restriction requirement.

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 63-65, 69-71, 72-74, drawn to a method for inhibition of apoptosis, or for treating a disease, wherein said disease is a neurodegenerative disease, and wherein the inhibition is at the protein level, comprising contacting a cell with an inhibitor of the activity of adenine nucleotide translocase-1 (ANT-1).

Group II, claims 63-65, 66-68, 72-74, drawn to a method for inhibition of apoptosis, or for treating a disease, wherein said disease is a neurodegenerative disease, and wherein the inhibition is at the nucleic acid level, comprising contacting a cell with an inhibitor of the activity of adenine nucleotide translocase-1 (ANT-1).

Group III, claims 63-65, 66-68, 72-73, 75, drawn to a method for inhibition of apoptosis, or for treating a disease, wherein said disease is a dilated cardiomyopathy, and wherein the inhibition is at the nucleic acid level, comprising contacting a cell with an inhibitor of the activity of adenine nucleotide translocase-1 (ANT-1).

Application/Control Number: 10/069,973

Art Unit: 1642

Group IV, claims 63-65, 69-71, 72-73, 75, drawn to a method for inhibition of apoptosis, or for treating a disease, wherein said disease is a dilated cardiomyopathy, and wherein the inhibition is at the protein level, comprising contacting a cell with an inhibitor of the activity of adenine nucleotide translocase-1 (ANT-1).

Group V, claims 76-87, drawn to a method for identifying substances that inhibit the activity of ANT-1.

Group VI, claims 88-91, drawn to a nucleic acid inhibitor of ANT-1 activity, as disclosed in the specification.

Group VII, claims 88-91, drawn to a polypeptide or peptide inhibitor of ANT-1 activity, as disclosed in the specification.

Group VIII, Group VI, claims 88-91, drawn to an inhibitor of ANT-1 activity, which are not nucleic acid, nor polypeptide, as disclosed in the specification.

Group IX, Claim 92, drawn to a method for diagnosis of an apoptosis process in a degenerative disease, wherein said disease is a neurodegenerative disease, as disclosed in the specification, comprising detecting the mRNA level of expression of ANT-1.

Group X, Claim 92, drawn to a method for diagnosis of an apoptosis process in a degenerative disease, wherein said disease is a neurodegenerative disease, as disclosed in the specification, comprising detecting the protein level of expression of ANT-1.

Application/Control Number: 10/069,973

Art Unit: 1642

Group XI, Claims 92-93, drawn to a method for diagnosis of an apoptosis process in a degenerative disease, wherein said disease is dilated cardiomyopathy, comprising detecting the mRNA level of expression of ANT-1.

Group XII, Claims 92-93, drawn to a method for diagnosis of an apoptosis process in a degenerative disease, wherein said disease is dilated cardiomyopathy, comprising detecting the protein level of expression of ANT-1.

The inventions listed as Groups I-XII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

According to PCT Rule 13.2, unity of invention exists only when the shared same or corresponding technical feature is a contribution over the prior art. The inventions listed as groups 1-3 do not relate to a single general inventive concept because their same or corresponding technical feature is not a contribution over the prior art.

The technical feature of group 1 is inhibition of apoptosis by administration of an inhibitor of ANT-1, which is known in the art. Fulda et al, Cancer Res, 1998, 58(19): 4453-60, of record, teach that apoptosis in neuroblastoma cells is inhibited by bongkrekic acid, which is an inhibitor of ANT-1, as taught by Pei, YZ et al, 2003, Synthesis-Stuttgart, 11, SI, pages 1717-1721, of record. Thus group 1 as a whole lacks novelty or inventive step, and does not make a contribution over the prior art.

Art Unit: 1642

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH-TAM DAVIS whose telephone number is 571-272-0830. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFREY SIEW can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MINH TAM DAVIS

May 20, 2005

SUSAN UNGAR, PH.O PRIMARY EXAMINER